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This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Currently amended): A client comprising:

a processor,

a memory;

one or more output devices;

a content player stored in the memory and executed on the processor to play content in the one or more output devices;

an operating system stored in the memory and executed on the processor, the operating system having processing tools for processing the content in support of the content player; and

a scrambling system to scramble the content before the content is processed by the processing tools of the operati[[o]]ng system and to unscramble the content after the content is processed by the processing tools of the operation system,

wherein the processing tools modify the scrambled content.

Claim 2 (Previously presented): A client as recited in claim 1, wherein the processing tools comprise a filter graph with one or more filters that process the content.

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Claim 3 (Original): A client as recited in claim 1, wherein the content player receives the content in an encrypted and compressed format, the content player decrypting and decompressing the content.

Claim 4 (Original): A client as recited in claim 1, wherein the scrambling system adds noise to the content.

Claim 5 (Original): A client as recited in claim 1, wherein the scrambling system XORs at least a subset of content with a random stream of bits.

Claim 6 (Original): A client as recited in claim 1, wherein the scrambling system transforms the content using one of time-domain or frequency-domain scrambling.

Claim 7 (Original): A client as recited in claim 1, wherein the operating system has at least one driver for the output devices and the scrambling system comprises:

- a scrambler resident at the content player to scramble the content to produce scrambled content; and
- a descrambler resident at the driver to unscramble the scrambled content to recover the content.

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Claim 8 (Original): A client as recited in claim 1, wherein the scrambling system adds a random signal to the content to produce scrambled content and subtracts the random signal from the scrambled content to recover the content.

Claim 9 (Original): A client as recited in claim 1, wherein the scrambling system adds a periodic sync tone and a random signal to the content to produce scrambled content and subtracts the sync tone and the random signal from the scrambled content to recover the content.

Claim 10 (Original): A client as recited in claim 1, wherein the scrambling system utilizes at least one key to scramble the content.

Claim 11 (Original): A client as recited in claim 1, wherein the scrambling system comprises:

- a tone generator to create periodic sets of tone patterns having varying amplitudes based on a first key;
- a first random number generator to create a random signal based on the first key and a second key;
- an adder to add the tone patterns and the random signal to the content to produce scrambled content;
- a tone detector to detect the tone patterns in the scrambled content and recover the first key from the varying amplitudes of the tone patterns;
- a second random number generator to create a random signal based on the recovered first key and the second key; and

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a subtractor to subtract the tone patterns and the random signal from the scrambled content to restore the content.

Claim 12 (Original): A client as recited in claim 11, wherein the second key is passed via a channel separate from the scrambled content.

Claim 13 (Original): A client as recited in claim 11, wherein the second key is exchanged between the first and second random number generator over a secured path.

Claim 14 (Original): A client as recited in claim 1, wherein the scrambling system is implemented in software stored in the memory and executed on the processor.

Claim 15 (Previously presented): A content scrambler for scrambling content, comprising:

a tone generator and modulator to create periodic sets of tone patterns and to modulate amplitudes of the sets based on a first key;

a random number generator to create a random signal based on the first key and a second key, wherein the second key is provided on a separate channel from the first key; and

an adder to add the sets of tone patterns and the random signal to the content to produce scrambled content.

the first key into the sets of tone patterns.

and second binary values.

Claim 16 (Original): A content scrambler as recited in claim 15, wherein

Claim 17 (Original): A content scrambler as recited in claim 15, wherein

the tone generator and modulator produces the tone patterns with one of two

amplitudes, wherein tone patterns with a first amplitude represent a first binary

value and tone patterns with a second amplitude represent a second binary value,

the first key being encoded into the sets of tone patterns as an aggregate of the first

the tone generator and modulator modulates the amplitudes in a way that embeds

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Claim 18 (Original): A content scrambler as recited in claim 15, wherein the second key is encrypted for secure transportation to a descrambler.

Claim 19 (Previously presented): A media player for playing multimedia content, comprising a content scrambler comprising:

a tone generator and modulator to create periodic sets of tone patterns and to modulate amplitudes of the sets based on a first key;

a random number generator to create a random signal based on the first key and a second key, wherein the second key is provided on a separate channel from the first key; and

an adder to add the sets of tone patterns and the random signal to the content to produce scrambled content.

Claim 20 (Previously presented):	An operating system comprising	ε
content scrambler comprising:		

a tone generator and modulator to create periodic sets of tone patterns and to modulate amplitudes of the sets based on a first key;

a random number generator to create a random signal based on the first key and a second key, wherein the second key is provided on a separate channel from the first key; and

an adder to add the sets of tone patterns and the random signal to the content to produce scrambled content.

Claim 21 (Original): A content descrambler for unscrambling scrambled content, comprising:

a tone detector and demodulator to detect periodic sets of tone patterns in the scrambled content and to demodulate amplitudes of the sets to recover a first key;

a random number generator to create a random signal based on the recovered first key and a second key, wherein the second key is provided on a separate channel from the first key; and

a subtractor to subtract the tone patterns and the random signal from the scrambled content to recover content.

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Claim 22 (Original): A content descrambler as recited in claim 21, wherein the tone patterns have one of two amplitudes so that tone patterns with a first amplitude represent a first binary value and tone patterns with a second amplitude represent a second binary value, the tone detector and demodulator using the first and second binary values from the varying amplitudes to recover the first key.

Claim 23 (Original): A content descrambler as recited in claim 21, wherein the second key is received separately from the scrambled content.

Claim 24 (Original): An operating system comprising the content scrambler of claim 21.

Claim 25 (Previously presented): A scrambling architecture for protecting content distributed by a content provider over a network to a client, comprising:

a content scrambler to scramble the content using first and second keys to produce scrambled content, the scrambler embedding the first key into the scrambled content and passing the second key on a separate channel from the scrambled content; and

a content descrambler to recover the first key from the scrambled content and to receive the second key, the descrambler unscrambling the scrambled content using the first and second keys to recover the content.

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Claim 26 (Original): A scrambling architecture as recited in claim 25, wherein the content scrambler and the content descrambler are implemented in software.

Claim 27 (Original): A scrambling architecture as recited in claim 25, wherein the content scrambler is implemented at the content provider, so that the content is scrambled prior to distribution over the network to the client.

Claim 28 (Original): A scrambling architecture as recited in claim 25, wherein the content scrambler is implemented at the client, so that the content is scrambled at the client after distribution over the network from the content provider.

Claim 29 (Original): A scrambling architecture as recited in claim 25, wherein the content descrambler is implemented within an operating system at the client.

Claim 30 (Original): A scrambling architecture as recited in claim 25, wherein the content descrambler is implemented within a driver at the client.

Claim 31 (Original): A scrambling architecture as recited in claim 25 wherein the content scrambler passes the second key to the content descrambler over a cryptographically secured path.

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Claim 32 (Original): A scrambling architecture as recited in claim 25, wherein the content scrambler comprises:

a tone generator and modulator to create periodic sets of tone patterns and to modulate amplitudes of the sets based on the first key;

a random number generator to create a random signal based on the first and second keys; and

an adder to add the sets of tone patterns and the random signal to the content to produce the scrambled content.

Claim 33 (Original): A scrambling architecture as recited in claim 32, wherein the tone generator and modulator modulates the amplitudes in a way that embeds the first key into the sets of tone patterns.

Claim 34 (Original): A scrambling architecture as recited in claim 32, wherein the tone generator and modulator produces the tone patterns with one of two amplitudes, wherein tone patterns with a first amplitude represent a first binary value and tone patterns with a second amplitude represent a second binary value, the first key being encoded into the sets of tone patterns as an aggregate of the first and second binary values.

Claim 35 (Original): A scrambling architecture as recited in claim 32, wherein the content descrambler comprises:

a tone detector and demodulator to detect the periodic sets of tone patterns in the scrambled content and to demodulate the amplitudes of the sets to recover the first key;

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a random number generator to create a random signal based on the recovered first key and the second key; and

a subtractor to subtract the tone patterns and the random signal from the scrambled content to recover the content.

Claim 36 (Previously presented): A client-server system for protecting content, comprising:

a client;

a server to serve content to the client, the server having an encoder to encrypt and compress the content to produce encoded content;

the client receiving the encoded content from the server and having a decoder to decrypt and decompress the encoded content to recover the content;

the client having a scrambler to scramble the content after decryption and decompression, the content remaining scrambled while processed by the client; and

the client further having a descrambler to unscramble the content after processing for subsequent playing

wherein the processing modifies the scrambled content.

Claim 37 (Original): A client-server system as recited in claim 36, wherein the client is equipped with a media player to play the content, processing tools to support the media player, and a driver; the scrambler being implemented as part of the media player and the descrambler being implemented as part of the driver.

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Claim 38 (Original): A client-server system as recited in claim 36, wherein the client runs an operating system, and the content is scrambled while being handled by the operating system.

Claim 39 (Previously presented): A method for protecting content within a computer device, comprising:

receiving encoded content;

decoding the encoded content to recover the content;

scrambling the content after the decoding;

processing the content while scrambled;

descrambling the content after the processing; and

playing the content,

wherein the processing modifies the scrambled content.

Claim 40 (Original): A method as recited in claim 39, wherein the scrambling comprises adding noise to the content.

Claim 41 (Original): A method as recited in claim 39, wherein the scrambling comprises XORing at least a subset of the content with a random stream of bits.

Claim 42 (Original): A method as recited in claim 39, wherein the scrambling comprises transforming the content using one of time-domain or frequency-domain transforms.

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24 25 Claim 43 (Original): A method as recited in claim 39, wherein the scrambling comprises:

adding sets of sync tones periodically to the content; and adding a random signal to the content.

Claim 44 (Original): A method as recited in claim 43, wherein the descrambling comprises:

detecting the sets of sync tones in the content; subtracting the sync tones from the content; and subtracting the random signal from the content.

Claim 45 (Original): A method as recited in claim 39, wherein the scrambling comprises:

producing periodic sets of tone patterns having varying amplitudes based on a first key;

generating a random signal based on the first key and a second key; and adding the tone patterns and the random signal to the content.

Claim 46 (Original): A method as recited in claim 45, wherein the descrambling comprises:

detecting the tone patterns in the content;

recovering the first key from the varying amplitudes of the tone patterns;

generating a random signal based on the recovered first key and the second

key; and

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subtracting the tone patterns and the random signal from the scrambled content to restore the content.

Claim 47 (Original): A method as recited in claim 39, wherein the processing comprises passing the content through a filter graph.

Claim 48 (Previously presented): A computer-readable medium having computer-executable instructions for performing a method comprising:

receiving encoded content;

decoding the encoded content to recover the content;

scrambling the content after the decoding;

processing the content while scrambled;

descrambling the content after the processing; and

playing the content,

wherein the processing modifies the scrambled content.

Claim 49 (Previously presented): A method for delivering content from a server to a client over a network, comprising:

encoding the content at the server;

serving the content from the server to the client;

decoding the content at the client;

scrambling the content after the decoding;

processing the content while scrambled;

descrambling the content after the processing; and

playing the content,

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wherein the processing modifies the scrambled content.

Claim 50 (Original): A method as recited in claim 49, wherein the scrambling comprises:

adding sets of sync tones periodically to the content; and adding a random signal to the content.

Claim 51 (Original): A method as recited in claim 50, wherein the descrambling comprises:

detecting the sets of sync tones in the content; subtracting the sync tones from the content; and subtracting the random signal from the content.

Claim 52 (Previously): A method for delivering content from a server to a client over a network, comprising:

scrambling the content at the server to produce scrambled content; compressing the scrambled content at the server; serving the compressed, scrambled content from the server to the client;

decompressing the compressed, scrambled content at the client to recover the scrambled content;

processing the scrambled content to modify the scrambled content;

descrambling the scrambled content after the processing to recover the content; and

playing the content.

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Claim 53 (Original):	A method	as	recited	in	claim	52,	wherein	the
crambling comprises:								

producing periodic sets of tone patterns having varying amplitudes based on a first key;

generating a random signal based on the first key and a second key; and adding the tone patterns and the random signal to the content.

Claim 54 (Original): A method as recited in claim 53, wherein the descrambling comprises:

detecting the tone patterns in the content;

recovering the first key from the varying amplitudes of the tone patterns;

generating a random signal based on the recovered first key and the second key; and

subtracting the tone patterns and the random signal from the scrambled content to restore the content.

Claim 55 (Previously presented): A computer-readable medium having computer-executable instructions for:

producing periodic sets of tone patterns having varying amplitudes based on a first key;

generating a random signal based on the first key and a second key, wherein the second key is provided on a separate channel from the first key; and

adding the tone patterns and the random signal to the content to scramble the content.

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Claim 56 (Original): A computer-readable medium as recited in claim 55 further having computer-executable instructions for:

detecting the tone patterns in the content;

recovering the first key from the varying amplitudes of the tone patterns;

generating a random signal based on the recovered first key and the second key; and

subtracting the tone patterns and the random signal from the scrambled content to restore the content.

Claim 57 (Previously presented): A computer-readable medium having computer-executable instructions for:

detecting periodic sets of tone patterns within scrambled content, the tone patterns having varying amplitudes that were modulated based on a first key;

recovering the first key from the varying amplitudes of the tone patterns;

generating a random signal based on the recovered first key and the second key, wherein the second key is provided on a separate channel from the first key; and

subtracting the tone patterns and the random signal from the scrambled content to produce unscrambled content.

Claim 58 (Currently added): A client as recited in claim 1, wherein the processing tools modify the scrambled content, and performs one or more of the following: apply controls, adjust controls, mix with other sources, or impose a delay.

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Claim 59 (Currently added): A client-server system as recited in claim 36, wherein the wherein the processing modifies the scrambled content, and performs one or more of the following: apply controls, adjust controls, mix with other sources, or impose a delay.

Claim 60 (Currently added): A method as recited in claim 52, wherein the processing performs one or more of the following: adjusting controls, mixing with other sources, or imposing a delay.

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